



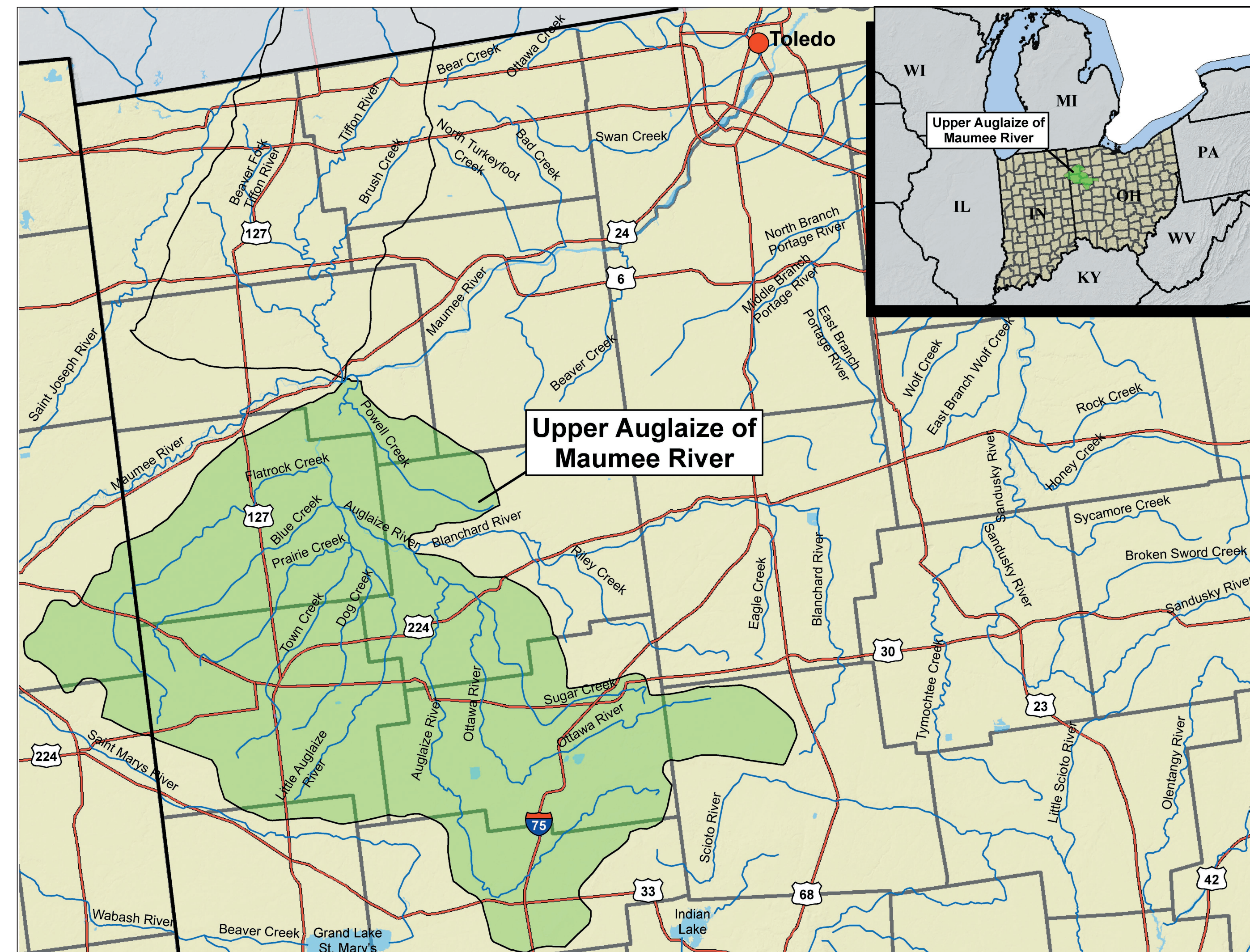
United States Department of Agriculture

# Conservation Effects Assessment Project (CEAP)

*Upper Auglaize Watershed, Ohio: 2004-2006*



An NRCS\* Special Emphasis Watershed, one of 24 CEAP watershed projects.



## Approach

**Water sampling:** Sediment, nutrients

**Watershed models:** AnnAGNPS (Annualized Agricultural Non-Point Source)

**Water quality monitoring:** Suspended sediment, nutrients, metals, and pesticides

## Communicating Results

Report effects of conservation on erosion, yield, and loading; report effects of agricultural chemical fertilizer on pilot subarea; and report effects of fertilizer in full Upper Auglaize River watershed.

## Collaborators

- USDA, Agricultural Research Service
- US Geological Survey
- Ohio Department of Natural Resources, Division of Soil and Water
- Ohio Environmental Protection Agency
- Allen, Auglaize, Van Wert & Putnam Soil and Water Conservation Districts
- Army Corps of Engineers
- University of Toledo
- Heidelberg College
- Ohio State University

## Contacts

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## CEAP Assessment

Assess the effects of subsurface drainage and other related best management practices on water quality.

### Watershed Description

The Upper Auglaize River watershed is a subwatershed of the Maumee River basin.

- 212,000 acres
- 83% of the watershed is tile drained
- 74.2% cropland, 10.8% grassland
- A Total Maximum Daily Load (TMDL) has been established for total phosphorus, dissolved oxygen, bacteria, and aquatic habitat.

**Issues:** Watershed contributes a significant amount of sediment to the Maumee River that is then transported to Toledo Harbor. Farm fields are extensively tile drained and the area has a very extensive network of drainage ditches. Intensive farming practices have stressed the habitat needs of wildlife.

\*Natural Resources Conservation Service



First Conservation Security Program contract signing ceremony.



Riparian buffer along waterway.



Young soybean plants thrive in the residue of a wheat crop. This form of no-till farming provides good protection for the soil from erosion and helps retain moisture for the new crop.

## Timeline

<b>2003</b> Initial funding	<b>2004</b> <b>August</b> CEAP bibliographies	<b>2005</b> <b>May</b> Wetlands peer review	<b>July</b> Wildlife literature review (program-based)	<b>October</b> Cropland literature reviews Wildlife literature review (practice-based) Wildlife Work Plan	<b>November</b> Wetlands Work Plan	<b>December</b> Draft findings—Prairie Pothole region
<b>2006</b> <b>February</b> Preliminary habitat quality models— Prairie Potholes wetland region	<b>March</b> Preliminary National Assessment Report	<b>2007</b> <b>Fall</b> National Assessment Final Report Special Emphasis Watershed reports				